

MAY 1984

THE BRICK WALL


INIIE:


Fage Dite - PIUE DU PALL

Pages Three Four - Knighte cowiter
Fages Fivesix - useful Proytic?
Page 5eten - Brick Will Pase Eisht - THEAL tips
Fage: NineTen - 2k Expers

Dues are now due - SEE PAGE ONE

The fipil meeting was well attended atum much actomplished its short onder: The Hes are now ta per year for all members, effective impotiatelys The dues shall be paid once a year. current nembers hill hawe dues promated to the new rates Carresponating 解mers (non-woting) will still pay 靭 per year for 10 iscues of SINCLS NEWE.

FithldiEfT TO CHPRTEF: Article UI, Section II: line 5 was approwed to read "Fresident mey appoint to fill vacant offices. vacancy of office to he determined by: resignation. lapse of dues or nom-performance of office. Hajority of Executive cominitte to deter wime nolpperformance of office:"

The Tape Librar't was voted an allowance of 5 tripes every month from blam tape sales. Later develcpments during the weeting way cause this to come up for a rew notion for wore blank tapes at the hay met.ing.

The motion to purchase 7 TIHEX-sinclair 104tion prograns was approueu. Titles were selecteg but not noted here. derry Knicteriacker to order from. $\mathrm{E}_{2}$ firthur Bromm Co.

The duties of the Recording secretary Here expented to hambie the "Mail orden Help File". If any merter has a bact deal. frallat or a problem with a mal-order bueites regaroitug TIHEX-Einclair products, write out the problen in as fent words as possikle, have supponting dacumentit.ion, and sign the complaint. The Recording secretary will seek the storty from the other side via certified anil/return receipt requected; reply within 3 daty. The sIftu hews will then carry both sides (if protided) for all to pead H1so, the names and adreces of ccompaies you are doing business with and are having gacut relations with ujll be printed in EnNCLS NEWE, With your cowiocnts, on both the service ant the prodillet.

All of the akowe motions were passed by hand vote, unanifolusly, 32 wembers voiting, Nowinations were made and the bailot will be mailed to all menters a HEEk pricf. to the May meeting.

I nominated Earry Emis for Fresident for several reasons, but the top two are his enthusiasm and his enthusiasm. Gary Gee all out for what he believes in, and he toee it da'y in and da't cuts. be does not let little things get in his way of getting the jok done. Plus Eary has depth, he is "into" marys different. interests, pusuits and wobbies. gardening, fishing, fish keEping, witing, sports, ami oh yeah - computers! (Amd
those are just a couple of the ores I'm aware of, ) Whacuer shoula be the next. president, and the next and the mext, shall have my full support come hell or high water.

With THEX IEawing a trail of broken busimesser, wagazines atud pronises in its wake, there are a few loose ents to pict up on ant see that giver. If you haten to witten scmeone abcut your concern as to What JMEX diat to you, then read stan Veet's editor ial in curputer shoffer, page 12, Hay 1904, then sharpen the quill up amd write Sinclair int the ush on Eritain, TIMEX, SYHE, and then wit to see that happens next. Write to the editors of computer magazines and ask theim to carry a column on sinclair machimes. Hen the mail gets flowing the preves to be get woring. So spend a few minutes, a stanp and voice your opinion.

For as many mewers as we have, there are as wany reacons for owning a personal computer. thy man coricern is to learn all I can from the machite and others to better use it. The wachine oprens up a new field of individual expression, whether it be graphics, math, word processing or ganes. Fuch like the moving thoe geve the tases the sacks, IC's and wicro-electronics gave the masses personal computers. We have the choice, use others' works of programing of dewelop our curn. We can buy the compliter or build our cun. then we do sonething ourselves ue leame a bit more akout the machine and curselbes. Realizing many do not want to roll their oum for zany reasons, there do exist the human beings tho want to do it "their Hay" Fon these indiviuals there should de a challenge to make life interesting. to see if there isn't a better way to do the sakit thing in a progran. so to these beings I propose the formation of a program to challerge thuse that uish to participate. To those interested contact pe and we'll hash curt. the idea and see What we can cope up with. Mayse a monthiy prodien to solve, time the solutions to find the fastert, or fewert bytes used or wost accurate or whatever. The prize, that feeling of having done scmething different, better, faster, and leamed how others program the same thing a different Hay, The cost, whatewer you put into it, less of course what you get out of it. thate we could even sell the ideas in a book form or thatever and kecome rich and farmous, the knows?

Paul Hi:l

by Dave Schoenwetter

Using my new Timex 2068 for about a week before the April Sincus meeting I was very impressed with the new basic commands which were not available on the $T / S 1000$ and the keyboard was a great improvement for my "fumbling fingers", however I was itching to get my printer attached to the expansion slot. I was disappionted with the lack of technical information provided by the user manual as I contemplated how I could get "under the hood" without having my investment turn into a puff of smoke. Thanks to Wes with the technical information he provided at the meeting the next day $I$ had my Epson $R X-80$ printing data from the 2068.

The 2068 uses ascii character codes for the character set which eliminated a decode table as was necessary with the T/S1000 so it was only a matter of the hardware connection which can be accomplished with four inexpensive integrated circuits. 1 chose to use a $74 \mathrm{LS13B}, 74 \mathrm{LS} 32,74 \mathrm{LS} 33$ and a $74 \mathrm{LS0} 3$ because I had all of them in my junk box. These circuits were sufficient to provide the necessary address decode and data bus isolation for the printer Centronics Interface. Fower is provided by the 5 valt pin on the expansion connector. The port address is hex 87 as defined by the Timex Technical Memo \#b to be a Fd/Wr Centronics Interface. Write data is buffered by the $74 L 5373$ and the read is gated by the 74LSOS open collector.

Driving the interface requires a machine code routine of 16 bytes and basic routines to format the data for line and column control. The basic commands COPY, L PRINT and L LIST will not work so all the printing will require a basic routine with a USF call to the machine code. This inconvenience is offset by the ability to print up to 80 columns with selectable type at speeds up to 100 characters per second. With the use of basic routines to provide the data all of the available features of the Epson printer can be used including the dot addressable graphics.

Using basic to format the data for the printer does slow the printer down to some extent. The printing time for this article using basic is about two minutes, the same data when printed using a machine code routine is less than 50 seconds. The equilavent basic routine for the COFY command requires the use of the SCREEN command and some for-next loops,because the display file contains pixel data unlike the $T / 51000$ which contained the character code. As more information becomes available about the 2068 , converting frequently used print routines to machine code will improve the printing speed and reduce the amount of basic programming.

For the last two weeks since I received my 2068 I have spent many entertaining hours learning the new basic commands and experimenting with some new hardware projects. My next project will be a modem to connect to the outside world. So far the 2068 appears to be a good machine for hardware "add on's". I'm hoping to hear from other users about their ideas and interests in hardware.

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ORDER FORM


If you're like me, useing the computer means doing something useful wit: it. That is, if I'in going to write a prograin, it must be something bseful I"m leaming something from the experience. Over the years i ve befa able come up with two short programs that meet these criteria. The first seareher for prime numbers and the second for right triangles whose sides are integers.

The first program is one I first wrote on my EALLEY ARCADE. It wrored -ather well there on just a fex instructions because that computer anly worty in integtar arithematic. When I got my TIMEX, I found that it took a little more programming to convert mised numbers into integers. fhe proceedure is rather simple in that it tates a number "N" and divides it by all possible intogerg from 2 to $N$ fon If none of the answers is an integer. $N$ is recorved as a prime mumber. The program gives you a chance at the beginning to tell it where to stop. It then prints the number 2 (which we know is a prime)" and contimus to go about it"s thing. Things get pretty slow as it seatches the langr numbers, since they require mome calculations. My suggection is bhat tha progran be run with the computer in the slow mode so yout can wateh the anntars appear as they"pe romputed.


```
O FGINT "EMTEF HTGHEST HUMEEE TG &E USED."
|% ENFMT G
OQRENT"**
#CF if %O MTEF?
30) LET N:
```



```
4. LGT %-.#MT B
* 1EET F-F|*&
CO TF MON THEM NEXT N
O 1F ANO THEN GOTO 15O
```



```
a) GOाO 40
1OO FFTHT "TOHE"
1O% FRIMT N:
135 FFINT " "%
1.SO NEYT N
J.O FFEMT "ODHE"
```

Somethimg that has fasinated mathematioians for some yearg. (hell a fer口f us, anyway, is the fact that there exist a series of right triangles Whase इides are integers? 3. 4.5 for instance. Using the wisdom of Fytragores, of $A$ squared plus $E$ squared aquals $C$ squared famen I devised a routing to zearch out these elusive figures for he.

This program simplystarts by asting you for limits on the siza of the Gdes adjawent to the right anglen sides A and $B$. It then starts with faza

 continues. bhenever SQR $E$ is an integer the three sides are printed out. A is imerementad amd the program rontinues. The whole thing is gpeeded up by the simple expedient of thecking for the ease where $A=B_{\text {E }}$ ands when truen increment $\theta$ and reset A to 2 . This prevents repeating triangles such as $3,4,5$ a $4.3,5$.

The :ist of trimngles is rather interesting but we still get some
 rould be atiminated by combining part of the prime numbers progran to etiet that at least one side is a prime number. Another possible fajlure in th: s
: ogram would occur at very $]$ arge rumbers, where round offeror could hidde l'f fact that SDf $E$ js not really an integer. However. I doubt that anyone komt: to invétigate triarigles that large. Well: it"E beer fun and I hope you erijoy these programs as much as I j ${ }^{\mathrm{j}} \mathrm{d}$

```
10 FFINT "THIS FFOGFAM WILL CHECKG FOF ALL"
2O FFIHT "THE FOGEJEIE FIGHT TFIANGLES OF"
3O FETHT "SIDFS A E C WHEFE A, E AND C"
4") FFITHT " AFE ALNL INTEGEFG."
G` FFTNT "ENTEF THE LARGEST.NUMEEF FOF STDE A:"
EO INFUT F
7 FFINT "UNTER THE LAREEST NHMEEF FOF SIDE E:"
E", JPFUT F
E1 ML
G?FFINT "GTDE A STDE E H HYOTENUSE"
CS LET E=8
@4 LET E=O
Qg LET A=`
G:LET E= (A⿻A)+(E*E)
jOG LET H=5GF E
1JOLET N=1NT H
taO IF D* [=C THEN GOTO 2OO
13 &ET G=A+1
14O IF FOF THEN EOTO 25O
SO GOTO SO
*50 LET &-%+1
%O IF E: THEN GOTO 2DO
    O ETTG &e
BO% LET D=1
(M) FFINT TAB E:A:TAE 1E:B:TAE 2S:D
* IO IF G=O THEN GOTO 2EO
`) FFINT "DONE"
```


## charlio Licher <br> sincus

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# Titer Brick What fin Movie c 

 for EvEry Computer．contains o＂brick bal 1 ＂ then cen prevent the computer from doing Hint fou went：since the wall is different for every computer；we concentrated on the TElugu atm we form a couple of places UTE we could＂smash into it＂．Pis mentioned bet．time，I wont．consider this a＂hus＂，sine it absolutely wist exist in soche for mo If there i is a jot of available allot lath a jot of clever programmers to wite the BHEIE interpreter l the wall强ighte vert y hard to find but it＇s in there somedure！To try to underaged the ball．let＇s lack at ante of the problem o presented last FOTH：If HE ETVE：

```
l LET H=1 
```

ama Dui the prograti，we get a surprising result．fit the End，$A=1$ and $E=1$ ，sn should get＂EOHP＂BE at attender＂Instead He get＂把T Euthi＂Curious．If te change the order of lines 3 and 4 ，mich shoultht chare the auteur，we get ＂Equal＂as at answer．curiouser arm curiouser．If，inetaid of changing lies E alms 4；te transpose the $H$ and $B$ in line 5

 Feather than get imbrued in binary rulers right THOM，let is inagife a computer that really work in decimal．Now it＇s passible to specify a mutter that contains an infinite Theme of digits．Alas，the cant sulla a memory large Enough to contain such a rimier，Ewer with mon＇s as crap as it is these days．blat we need to in is wot out a scheme that let＇s use store Thimetre that can be either pretty large or pretty shall，am pope that he newer peed to exceed tine limit．leferght do it with the following format．


The matisse is e fraction with four． tecimi pieces，The exponent is a number that tells us how far to Hove the decimal paint to the left or right．For example：


Bet the idea？tote that it the last case there aren＇t enough digits to exactly represent the number，AE such 54Fill at a 54ice ucla be exactly the same to the computer．This is tie foundation of the ＂Brick Will＂．

How lEt＇s try the secomic case，there ie Change the order of limes a ak 4 ：In bine
 － 3046
In line 4 We divide by 3 ，to get（ax a ind ＝i．The result is still 1,50 ，get．
 does these camortimus in kiflary and there
 FakIr pours The＂ERICK HLL＂is revealed！

Could the EnGr interpreter hate beer rewritten so that the＂EHALIS＇test would pass if the mamet were merely＂Altos？ Excl＂？The amer is＂res＂，in fact，some E4BILS operate in this mimer，It is possible for this reason that the Tine always giver＂Ebifil＂as an icier to this program e However，this can also hate it is problems，since there could be cases indre it would falsely ceil two makers equal． then they really should not be．The＂brick wall＂is still there；it＇s just mowed to a different place！

He still hawen＇t discussed the case Here bath＂EQuhi＂and＂tot Elfin＂appear together：Did Set that the TSicata river passes the＂EGiphis test when the murders are almuce equal the I dint，lock ageith，ppparantiy，＂Bifrost EQuAl＂right be gout enough，tapernditig on the of wet of the Timbers being ter ted．If this see me unreasonable，then I＇ll have to compere this is wore of a＂buss than a＂EFIT
 bug．It＇s somewhat amplify to be able to shout two numbers to be equal and not equal at the same time．If there are some ki at it your ne foborinocut the are＂too smart：＂ with computers，shows that problem to tie． It．＇ll put them in their place．

For space reasons weill have to cover the FOF loop problem Text time； although there＇s enough information for the reader to figure it cut if the＇s haven＇t already come so．Also haviry thoroughly disgraced the Tisien here； He＇sl continue to pick on the Teeter．

## TIMEXLU



## CONSIDER THIS:

he I urite this: I heus in front of me the sjluer colored paimplet that come
 titled "Ginclair $2-31$ Softuare Gatelog Whe atrs of you olatimers rememer it? it tells of inerentely primitive tapes of short pheic prograns that Einciait
 for I also hewe an issue of sulthx, dited atcut the sarue time, ith imich simelair is mentimed as heving po intention of exumping ite sottware ine
 the priviletse of asserikilng yout oum DX-GI; a machite somebint less caparie than the uThexpaneg TEILutu. If you counlan't get it to work, you could sent it to Einclair witto fairly good fistul of morely and the's'星 repair it for wou. If He court intlation, then that mepar charge alone could tonary buy fou a Toinde
 tilaes have changed.

Yet those were the early tas of
 enthusiasts packect ewerl meetimi and mo orte complainet of laek of support. We hat our computers and there was lots to tor Since thetr the mumer of THEX-sinclat: cumers has exploded, and the amount of third party support, Even ith these days fallowith the "Timex surprise", is far greater than ue could have hoped for pro the same time I see ath attituce of pessimis酸 among many users. as though our club could dissolve at ath moment, and as if our computers will wanish, simply because Mriex taenit sell thelf anyare.

Please dont formet that situle thrived under fiar less support than ue hatwe todey, lif'we learmed a great deal since then, and our collective expertise is nothing less then autsone. Even it us wete totally alone idrich were noti, we could keep on going for a iongy long time: There's still plenty to do.

Let's ito it.

## WES BRZOZOWSKI <br> Sincus

IIT This is beimatyen on unf sw II


 this is wats I'muin the large tye


## THS 15

LABE TWEATHES
lide teroldere case
RESLLHF TIFFER CASE


place in ousgo. I have plenty of pirkins, electricity, and table spad. I ul Frovide a $\mathrm{C}-\mathrm{Si}$ with THEX Chess a 206
 With Sott Sink "WIEE GUET", I AlG should point out I dant pley dere-I all wove the pieces is about all!!!
so sign un to participite, heif, of just wisit, You wit sume rel equare


 theip particepation in this issere of
 belps that one of the pirticts is in (ugh kid! They wo only bulyt the twatay ad in this issue, but they aloo chled we to fill in in some other into - speifially. they have a fell 2 aber, a fell 204 printers: and lots of othere stulf softures, and harmare, I'd like to afine a othres site of syfulue! hing jinterected? Call Me at 6772041 of
 for calling we with the aderes on mate to of wet the "Techinial harilla" send yur tes to:

Trex Meterials sale Divison F.0 EDM 1378

LittJe Rod, Renanas 720 d




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Hes than：to Row hation of the

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Feroully．I an we plear with the




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 In：

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GY Em：



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Each uot them=riritingewery-
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\begin{tabular}{|c|c|c|c|}
\hline \(F 48\) & 1－5 & HL ，为灾 & ESE \\
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\hline F484 & 15 & A，H & \\
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#GEERA ESEG
```



```
ED EEAD %
ES IF n=-1 THEN SO TO EO
З FOKE а,-
35 LET a=a+1
40 ETO EO
EN STIF
EN DRTA SO, EB,40,124,E54
E,120,31,10E,110,24,245,-1
```}} \\
\hline & \\
\hline
\end{tabular}
THE darker image．dou sober it or tre printer and eEHDi puFE MAGTE
```

- 


## IATE NOTICE：

Many items are arriving as we go to press．Mail has been held up as a result of the butane Rf car accident in Binghamton，so some things arrived too late for inclu－ sion here．Coming to our meeting will insure that you get exposed to all of these things－like the program where the 2068 will play music，or the flag that you can POXE to set capital or lower case．

SO SEE YOU THERE NEXT MOTTE！！！

